

Work Order ID 105583***105583***

Page 1

August-08-13 9:12:05 AM

Item ID: D3029-1

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: Spring

Stop

NS2

Start Date: 8/08/13

Start Qty: 10.00

10

Cust Item ID:

Required Date: 8/08/13

Req'd Qty: 10.00

10

Customer:

Reference:

Approvals:

Process Plan: MCT

Date: 13-08-08

Tooling:

Date:

Run Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|

| | | | | | | | | | |
|----------|--------------|--|--|--|--|--|--|--|--|
| Draw Nbr | Revision Nbr | | | | | | | | |
|----------|--------------|--|--|--|--|--|--|--|--|

| | | | | | | | | | |
|-------|-------|--|--|--|--|--|--|--|--|
| D3029 | Rev A | | | | | | | | |
|-------|-------|--|--|--|--|--|--|--|--|

| | | | | | | | | | |
|-----|--|------|--|--|--|--|--|--|--|
| 100 | | 0.00 | | | | | | | |
|-----|--|------|--|--|--|--|--|--|--|

| | | | | | | | | | |
|--------------|------------|--|--|--|--|--|--|--|--|
| *100* | PURCHASING | | | | | | | | |
|--------------|------------|--|--|--|--|--|--|--|--|

| | | | | | | | | | |
|------------|------|------|--|--|--|--|--|--|--|
| Purchasing | Memo | 0.00 | | | | | | | |
|------------|------|------|--|--|--|--|--|--|--|

| | | | | | | | | | |
|------------|------------------|--|--|--|--|--|--|--|--|
| Purchasing | Issue P/O: 20891 | | | | | | | | |
|------------|------------------|--|--|--|--|--|--|--|--|

Possible supplier: Northern Aero Industries

Order P/N B83605-1

Material: Ø0.041" piano wire

Dimensions: Mean dia.= 0.625" Pitch = 0.20" Length = 1.20"

All dimensions are in inches

Tolerances are per Dart QSI 018 unless otherwise noted

| | | | | | | | | | |
|-----|--|------|--|--|--|--|--|--|--|
| 110 | Receive & Inspect for Damage & Mat'l Certs | 0.00 | | | | | | | |
|-----|--|------|--|--|--|--|--|--|--|

| | | | | | | | | | |
|--------------|------|------|--|--|--|--|--|--|--|
| *110* | Memo | 0.00 | | | | | | | |
|--------------|------|------|--|--|--|--|--|--|--|

| | | | | | | | | | |
|-----------|--|--|--|--|--|--|--|--|--|
| Packaging | Ensure Material Release Note is attached | | | | | | | | |
|-----------|--|--|--|--|--|--|--|--|--|

CD 13/08/12 (10)

10X 13-8-15

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____

Date: _____

Work Order update only

| | | | | | | | | | | |
|-------------------|----------------------|--------------------------|---------------|----------------------------|-----------|--------------------------|---------------------|--------------------------|-------------|--------------------------|
| Work Order: _____ | DISPOSITION | | | AGAINST DEPARTMENT/PROCESS | | | | | | |
| Part No. _____ | Rework | <input type="checkbox"/> | Skid-tube | <input type="checkbox"/> | Crosstube | <input type="checkbox"/> | Water Jet | <input type="checkbox"/> | Engineering | <input type="checkbox"/> |
| NCR No. _____ | Scrap | <input type="checkbox"/> | Machining | <input type="checkbox"/> | Small Fab | <input type="checkbox"/> | Prod. Eng. Coor. | <input type="checkbox"/> | Quality | <input type="checkbox"/> |
| | Use-as-is | <input type="checkbox"/> | Thermoforming | <input type="checkbox"/> | Finishing | <input type="checkbox"/> | Rec/Store/Packaging | <input type="checkbox"/> | Other | <input type="checkbox"/> |
| | Suspected Unapproved | <input type="checkbox"/> | Large Fab | <input type="checkbox"/> | Composite | <input type="checkbox"/> | Supplier | <input type="checkbox"/> | | |

| Root Cause | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Design | | | | | | | | | |
| Doc/Data | | | | | | | | | |
| Equip/Tooling | | | | | | | | | |
| Handling/Pre | | | | | | | | | |
| Material | | | | | | | | | |
| Operator | | | | | | | | | |
| Offset/Setup | | | | | | | | | |
| Process | | | | | | | | | |
| Supplier | | | | | | | | | |
| Training | | | | | | | | | |
| Transport | | | | | | | | | |
| Unapproved | | | | | | | | | |

FAULT CATEGORY

| Landing Gear | General | | | |
|--------------------------|----------------------|--------------------------|-----------------------------------|--------------------------|
| Bending | Bend | <input type="checkbox"/> | Folio/Program | <input type="checkbox"/> |
| Centre Not Concentric | BOM/Route | <input type="checkbox"/> | Grain | <input type="checkbox"/> |
| Cracks | Broken/Damage/Defect | <input type="checkbox"/> | Hardware | <input type="checkbox"/> |
| Crimp/Kink/Ripple/Wave | Burrs | <input type="checkbox"/> | Inspection Incomplete/Unqualified | <input type="checkbox"/> |
| Cuffs | Contamination | <input type="checkbox"/> | Instructions Incomplete/Unclear | <input type="checkbox"/> |
| Crushing | Countersink | <input type="checkbox"/> | Misaligned/off center | <input type="checkbox"/> |
| Heat Treat | Cut Too Short | <input type="checkbox"/> | Mislabeled | <input type="checkbox"/> |
| Inspection Strip in Tube | Drawing | <input type="checkbox"/> | Misread | <input type="checkbox"/> |
| Marks/Chatter | Drill Holes | <input type="checkbox"/> | Off-set | <input type="checkbox"/> |
| Turning Sequence | Finish | <input type="checkbox"/> | Out of Calibration | <input type="checkbox"/> |
| Wave/Twist in Tube | Fit/Function | <input type="checkbox"/> | Out of Sequence | <input type="checkbox"/> |

Work Order ID 105583

105583

Page 2

August-08-13 9:12:05 AM

Item ID: D3029-1

Accept

N900040100

Setup

Start

NS1

Revision ID:

Item Name: Spring

Stop

NS2

Start Date: 8/08/13 Start Qty: 10.00 *10*

Cust Item ID:

Required Date: 8/08/13 Req'd Qty: 10.00 *10*

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|---|---|----------------------|---------------------|--------|--------------|---------------|---------------|------------------|----------------|
| 120 *120* QC Quality Control | QC6- Inspect dimensions to drawing Memo | 0.00 0.00 | DAS 27 B.8.16 | | | | | 10 | |
| 130 *130* Small Fab Small Fab | Small Fab Memo Cut # 65 Ajax Spring in 1/2 as per Dwg D3029 | 0.00 0.00 | | | | | | 10 | FF 13-08-20 |
| 140 *140* QC Quality Control | QC5- Inspect part completeness to step on W/O Memo | 0.00 0.00 | N/A SM/S | | | | | | |

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only

| | | | | | | | | |
|-------------------|---|--|------------------------------------|--|--------------------------------------|--|--|--|
| Work Order: _____ | DISPOSITION | | | AGAINST DEPARTMENT/PROCESS | | | | |
| Part No. _____ | Rework <input type="checkbox"/> | Skid-tube <input type="checkbox"/> | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | | | |
| NCR No. _____ | Scrap <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coor. <input type="checkbox"/> | Quality <input type="checkbox"/> | | | |
| | Use-as-is <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | | | |
| | Suspected Unapproved <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> | | | | |

| Root Cause | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|-------------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Design | | | | | | | | | |
| Doc/Data | | | | | | | | | |
| Equip/Tooling | | | | | | | | | |
| Handling/Pre | | | | | | | | | |
| Material | | | | | | | | | |
| Operator | | | | | | | | | |
| Offset/Setup | | | | | | | | | |
| Process | | | | | | | | | |
| Supplier | | | | | | | | | |
| Training | | | | | | | | | |
| Transport | | | | | | | | | |
| Unapproved | | | | | | | | | |

FAULT CATEGORY

| | | | | | | | | | | |
|--------------------------|--------------------------|----------------------|--------------------------|-----------------------------------|--------------------------|----------------------|--------------------------|--------------------|--|--|
| Landing Gear | General | | | | | | | | | |
| Bending | <input type="checkbox"/> | Bend | <input type="checkbox"/> | Folio/Program | <input type="checkbox"/> | Outside Dimensions | <input type="checkbox"/> | Pressure/Forced | | |
| Centre Not Concentric | <input type="checkbox"/> | BOM/Route | <input type="checkbox"/> | Grain | <input type="checkbox"/> | Over/Under tolerance | <input type="checkbox"/> | Set-up | | |
| Cracks | <input type="checkbox"/> | Broken/Damage/Defect | <input type="checkbox"/> | Hardware | <input type="checkbox"/> | Part Incorrect | <input type="checkbox"/> | Temperature/Cure | | |
| Crimp/Kink/Ripple/Wave | <input type="checkbox"/> | Burrs | <input type="checkbox"/> | Inspection Incomplete/Unqualified | <input type="checkbox"/> | Part Lost/Missing | <input type="checkbox"/> | Weld | | |
| Cuffs | <input type="checkbox"/> | Contamination | <input type="checkbox"/> | Instructions Incomplete/Unclear | <input type="checkbox"/> | Part Moved | <input type="checkbox"/> | Wrong Stock Pulled | | |
| Crushing | <input type="checkbox"/> | Countersink | <input type="checkbox"/> | Misaligned/off center | <input type="checkbox"/> | Positioned Wrong | <input type="checkbox"/> | | | |
| Heat Treat | <input type="checkbox"/> | Cut Too Short | <input type="checkbox"/> | Mislabeled | <input type="checkbox"/> | Power Loss/Surge | <input type="checkbox"/> | Other | | |
| Inspection Strip in Tube | <input type="checkbox"/> | Drawing | <input type="checkbox"/> | Misread | <input type="checkbox"/> | | <input type="checkbox"/> | | | |
| Marks/Chatter | <input type="checkbox"/> | Drill Holes | <input type="checkbox"/> | Off-set | <input type="checkbox"/> | | <input type="checkbox"/> | | | |
| Turning Sequence | <input type="checkbox"/> | Finish | <input type="checkbox"/> | Out of Calibration | <input type="checkbox"/> | | <input type="checkbox"/> | | | |
| Wave/Twist in Tube | <input type="checkbox"/> | Fit/Function | <input type="checkbox"/> | Out of Sequence | <input type="checkbox"/> | | <input type="checkbox"/> | | | |

Work Order ID 105583

105583

Page 3

August-08-13 9:12:05 AM

Item ID: D3029-1

Accept

N900040100

Setup

Start

NS1

Revision ID:

Item Name: Spring

Stop

NS2

Start Date: 8/08/13

Start Qty: 10.00 *10*

Cust Item ID:

Required Date: 8/08/13

Req'd Qty: 10.00 *10*

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

150

Identify as per dwg & Stock Location: GA

150

Packaging

Packaging

0.00

10X

S

13-8-20

160

QC21- Final Inspection - Work Order Release

0.00

160

QC

Quality Control

Memo

0.00

MW 13-08-21

MW 13-08-20

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____

Date: _____

Work Order update only

| | | | | | | | | |
|-------------------|-------------|------------|-----------|----------------------------|-----------|---------------------|-------------|--|
| Work Order: _____ | DISPOSITION | | | AGAINST DEPARTMENT/PROCESS | | | | |
| Part No. _____ | Rework | Scrap | Use-as-is | Skid-tube | Crosstube | Water Jet | Engineering | |
| NCR No. _____ | Suspected | Unapproved | | Machining | Small Fab | Prod. Eng. Coor. | Quality | |
| | | | | Thermoforming | Finishing | Rec/Store/Packaging | Other | |
| | | | | Large Fab | Composite | Supplier | | |

| Root Cause | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|---|-------------------|--------------------|-------------|--------------|--------------|
| Design | | | | | | | | | |
| Doc/Data | | | | | | | | | |
| Equip/Tooling | | | | | | | | | |
| Handling/Pre | | | | | | | | | |
| Material | | | | | | | | | |
| Operator | | | | | | | | | |
| Offset/Setup | | | | | | | | | |
| Process | | | | | | | | | |
| Supplier | | | | | | | | | |
| Training | | | | | | | | | |
| Transport | | | | | | | | | |
| Unapproved | | | | | | | | | |

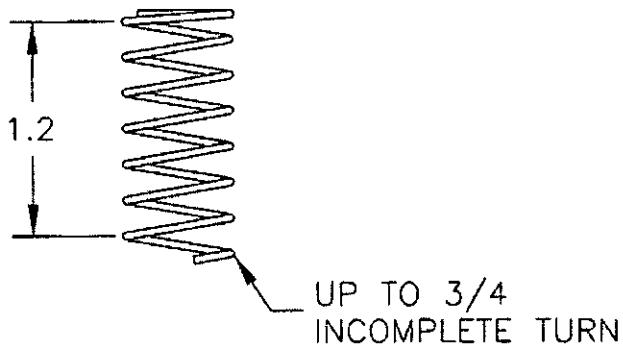
FAULT CATEGORY

| Landing Gear | General | | | |
|--------------------------|----------------------|--|----------------------|--------------------|
| Bending | Bend | | Outside Dimensions | Pressure/Forced |
| Centre Not Concentric | BOM/Route | | Over/Under tolerance | Set-up |
| Cracks | Broken/Damage/Defect | | Part Incorrect | Temperature/Cure |
| Crimp/Kink/Ripple/Wave | Burrs | | Part Lost/Missing | Weld |
| Cuffs | Contamination | | Part Moved | Wrong Stock Pulled |
| Crushing | Countersink | | Positioned Wrong | |
| Heat Treat | Cut Too Short | | Power Loss/Surge | Other |
| Inspection Strip in Tube | Drawing | | | |
| Marks/Chatter | Drill Holes | | | |
| Turning Sequence | Finish | | | |
| Wave/Twist in Tube | Fit/Function | | | |



| | | | | |
|----------------------|-----------------------|---|------------------------|--|
| DESIGN <i>CP</i> | DRAWN BY <i>CP</i> | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | | |
| CHECKED <i>CH</i> | APPROVED <i>-H</i> | DRAWING NO. 03029 | REV. A SHEET 1 OF 1 | |
| DATE 01.05.18 | | TITLE SPRING | SCALE 1:1 | |
| A | 01.05.18 | NEW ISSUE | | |

SPECIFICATION CONTROL DRAWING



D3029-1

1) DIMENSIONS: MEAN DIAMETER: 0.625
PITCH: 0.20
LENGTH: 1.2

2) MATERIAL: Ø0.041 PIANO WIRE

3) POSSIBLE SUPPLIERS: NORTHERN AERO INDUSTRIES P/N B83605-1
ADAMS SUPPLY LTD., 1/2 OF #65 AJAX SPRING

4) ALL DIMENSIONS ARE IN INCHES

5) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

3 MCL
13-08-08

LOSSES MLJ
13-08-08

RELEASED
2025-07-20

Copyright © 2001 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.



ACS-NA Ltd.

25 Dunlop Avenue
R2X 2V2 Winnipeg
Canada
Tel : 204-772-9922
Fax : 204-772-7568

SO: 29354

| | | |
|-------------------|---|-------------|
| Delivery No. | : | 4008 |
| Delivery Date | : | 08/13/2013 |
| SO No. | : | 29354 |
| Your Reference | : | PO: 20891 |
| Delivery Method | : | FEDEX |
| Payment Condition | : | Net 30 Days |

Delivery to: Dart Aerospace Ltd.

Attention: Chantal Lavoie
1270 Aberdeen Street

Hawkesbury K6A 1K7
Canada

B83605-1

SPRING
13-1642

10 EA 10 08/21/2013

Ship via P1 Account # 151793240
Email: clavoie@dartaero.com

Ph: 613-632-9577

SP/38-15

Packages: 0

Gross Weight: 0.00

Net Weight:

Ordered by: Dart Aerospace Ltd.

Attention: Chantal Lavoie
1270 Aberdeen Street

Hawkesbury K6A 1K7
Canada

Invoice to: Dart Aerospace Ltd.

0.00

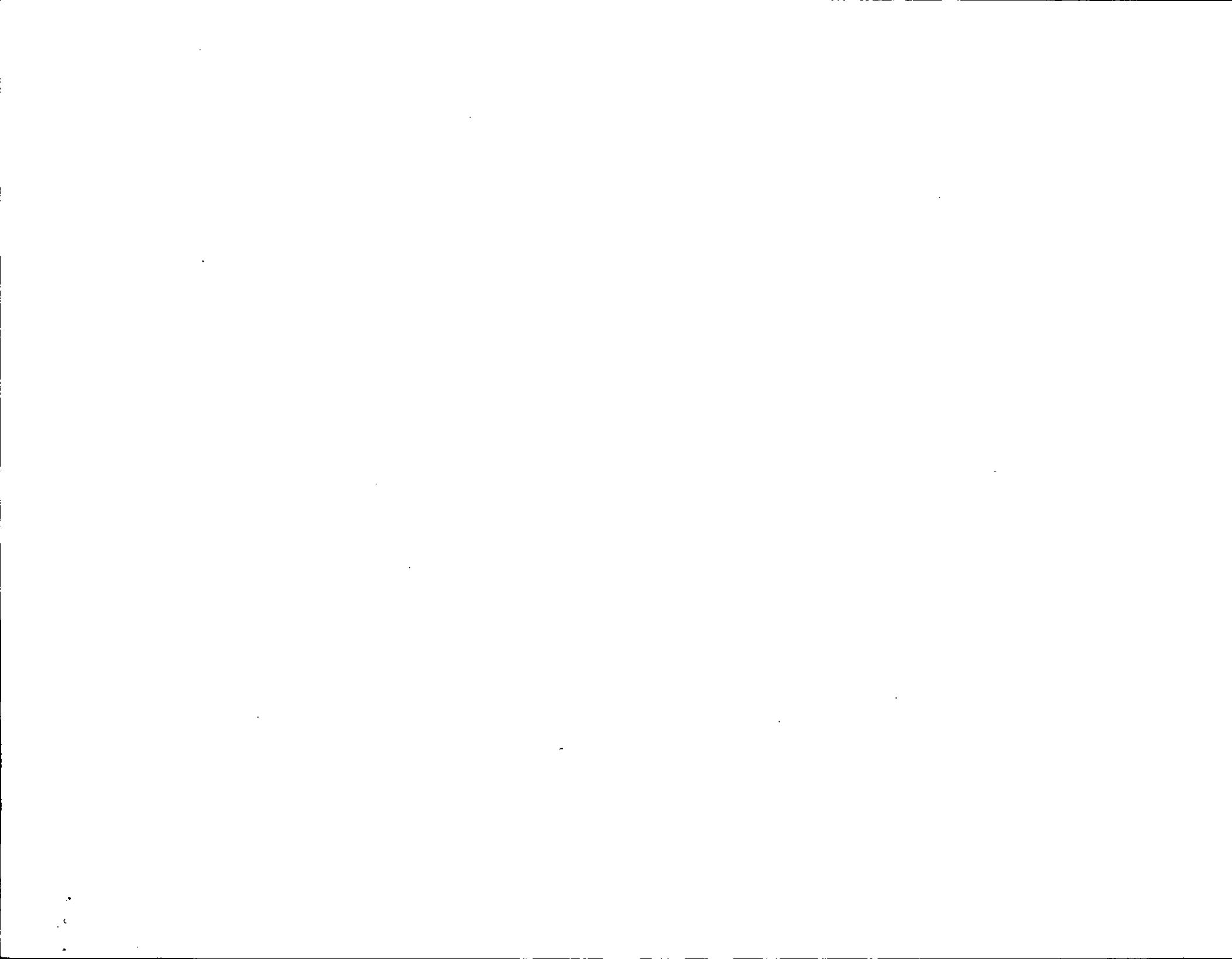
Attention: Accounts
1270 Aberdeen Street

Hawkesbury K6A 1K7
Canada

I hereby certify that the aircraft part(s) described hereon were acquired from a source of supply that is consistent with the conditions under which TCCA distributor approval AMO88-97 has been granted.

Signatory

Date:



STATEMENT OF CONFORMITY

| | | | | | |
|-----------------------------|-----------------------|--|----------------------|-------------------------|---------------|
| Form Tracking No. : 29354-1 | | Work Order/Contract/Invoice PO: 20891 | Cage Code: MFR L0555 | | |
| Item 1 | Description Spring | Part No. B83605-1 | Quantity 10 | Serial/Batch 13-1642 | Status New |

Remarks:

THIS ITEM CONFORMS TO DESIGN DATA IN ACCORDANCE WITH DWG B83605 (Rev. NC).

New-Unused Parts/Material Certification

The items described above have been manufactured using standards employed by a TCCA approved manufacturer in accordance with CAR 561 and a AS9100 Quality Assurance System.

Signature

Name

Date (dd mmm yyyy) 14-Aug-13

User/Installer Responsibilities: This certificate does not constitute authority to install the item(s) described above on an in-service type certified aircraft.

ACS-NAI Ltd.

25 Dunlop Avenue
R2X 2V2 Winnipeg
Canada
Tel : 204-772-9922
Fax : 204-772-7568

Packing Slip

| | | |
|-------------------|---|-------------|
| Delivery No. | : | 4008 |
| Delivery Date | : | 08/13/2013 |
| SO No. | : | 29354 |
| Your Reference | : | PO: 20891 |
| Delivery Method | : | FEDEX |
| Payment Condition | : | Net 30 Days |

Delivery to: Dart Aerospace Ltd.

Attention: Chantal Lavoie
1270 Aberdeen Street

Hawkesbury K6A 1K7
Canada

| Item | Description | QTY | Ordered | Delivery Date |
|----------|-------------------|-----|---------|------------------|
| B83605-1 | SPRING 13-1642 | 10 | EA | 10 08/21/2013 |

Ship via P1 Account # 151793240
Email: clavole@dartaero.com
Ph: 613-632-9577

Packages: 0

Gross Weight: 0.00

Net Weight:

Ordered by: Dart Aerospace Ltd.

Attention: Chantal Lavoie
1270 Aberdeen Street

Hawkesbury K6A 1K7
Canada

Invoice to: Dart Aerospace Ltd.

Attention: Accounts
1270 Aberdeen Street

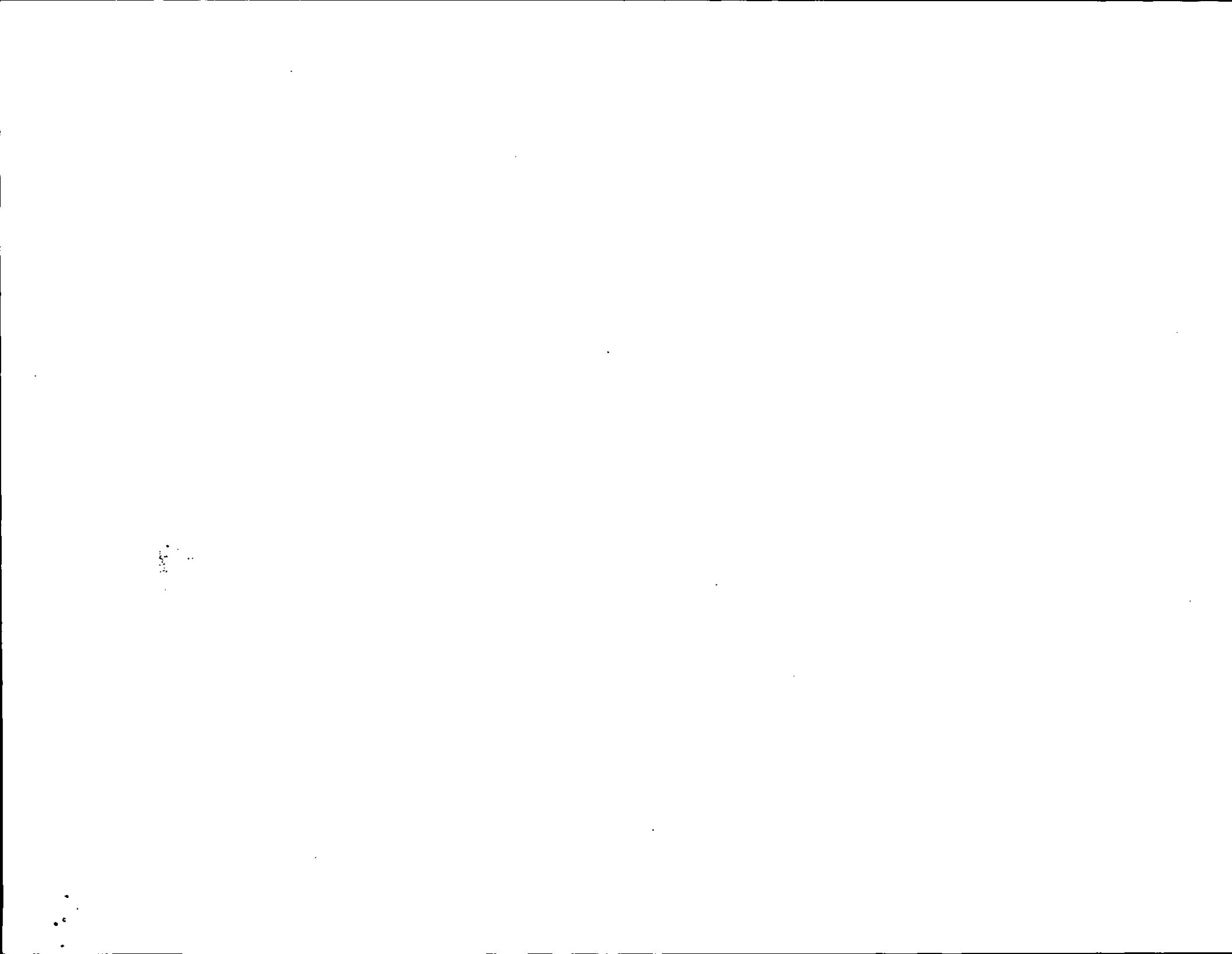
Hawkesbury K6A 1K7
Canada

0.00

I hereby certify that the aircraft part(s) described hereon were acquired from a source of supply that is consistent with the conditions under which TCCA distributor approval AMO88-97 has been granted.

Signatory

Date:





Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO20891

Purchase Order Date 8/12/2013

PO Print Date 8/12/2013

Page Number 1 of 1

Order From : VU-ACS001

ACS-NAI LTD.
25 DUNLOP AVENUE
WINNIPEG, MB R2X 2V2

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAXED
FC/BOS/2

| | | |
|-----------------|----------------|---------------------|
| Contact Name | Buyer | Chantal Lavoie |
| Vendor Phone | Customer POID | |
| | Customer Tax # | 10127-2607 |
| Ship To Contact | Terms | Net 30 |
| Ship To Phone | Currency | USD |
| Ship Via: | FOB | Destination-Collect |
| Ship Acct: | | |

| Line Nbr | Reference Vendor Part Number | Description/ Mfg ID | Req Date/ Taxable Promise Date | CD | Req Qty/ Unit of Measure | PO Unit Price | Extended Price |
|----------|------------------------------|---------------------|--------------------------------------|-----|--------------------------------|---------------|----------------|
| 1 | B83605-1 | SPRING | 8/21/2013 8/21/2013 | Yes | 10.00 Each | \$12.00 | \$120.00 |

AS PER DWG D3029 REV. A

B105583

MATERIAL: Ø0.041" PIANO WIRE

DIMENSIONS: MEAN DIA.= 0.625" PITCH = 0.20" LENGTH = 1.20"

SP B8-15

Line Total: \$120.00

PO Total: \$120.00

CL m/s

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required YES NO
PST# 6122-5207

Change Nbr:

1

Change Date: 8/12/2013

